

Bureau of Laboratories Equipment Wish List  
Requested by CD Bureau  
3-28-05

Priority	Laboratory Location	Item	Estimated Cost	Justification
1	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
2	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
3	Drug analysis Lab- Jamaica Plain	Balance, top loading, high capacity	\$ 1,400.00	Replacement of unrepairable equipment needed for testing
4	Drug analysis Lab- Amherst	Balance, analytical	\$ 2,300.00	Replacement of unrepairable equipment needed for testing
5	Drug analysis Lab- Jamaica Plain	microscope, stereo	\$ 1,500.00	Replacement of aging equipment (>20 yrs) needed for testing
6	Drug analysis Lab- Jamaica Plain	Light for microscope	\$ 207.00	Replacement of unrepairable equipment needed for testing
7	Drug analysis Lab- Amherst	Refrigerator explosion proof / flammable storage	\$ 1,150.00	Replacement of unrepairable equipment needed for solvent storage
8	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
9	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
10	Molecular Laboratory	QA/QC Instrumentation for PCR temperature validation	\$ 6,500.00	New item to perform mandated QA procedures
11	Infectious Disease Virology Lab Division- Viral Isolation/ Serology	Filtering pump system	\$ 800.00	Replacement of unrepairable equipment needed for test reagent preparation
12	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot autoblotter	\$ 1,500.00	New equipment to automate Lyme Disease Western Blot testing
13	Infectious Disease Virology Lab Division- Viral Isolation	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
14	Infectious Disease Virology Lab Division- Viral Serology	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
15	Infectious Disease Virology Lab Division- Viral Serology	Conductivity meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
16	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot Gel Casting equipment	\$ 3,000.00	Replacement of unrepairable equipment needed for immunoblot testing
17	Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
18	Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
19	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	BioRad chef mapper, complete system	\$ 40,000.00	Replacement of unrepairable equipment needed for testing
20	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	2- BioRad chef mapper, electrophoresis chamber	\$ 2,500.00	Replacement of unrepairable equipment needed for testing
21	Molecular Laboratory	10- Personal Air Purifying Respirators	\$ 11,157.00	New item for working with viral specimens in a BSL-3 laboratory
22	Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
23	Drug analysis Lab- Jamaica Plain	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
24	Drug analysis Lab- Amherst	15- Storage cabinets/units	\$ 1,335.00	New item for storing equipment and files. Replacement of aging equipment no longer supported by manufacturer needed for testing
25	Drug analysis Lab- Amherst	Gas chromatograph / Mass spectrometer	\$ 74,672.00	
26	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
27	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
			\$ 311,173.00	

Draft FY2007 Equipment List for 4516-1000

**Bureau of Laboratories Equipment Needs**

Laboratory Location	Item	Estimated Cost	Justification
Central Lab Services- Specimen Receiving	Two door refrigerator	\$ 15,000.00	
Diagnostic Microbiology Lab Division - Enterics	Plate Reader	\$1,000.00	New item for reading results of Shiga toxin tests. Currently using borrowed equipment.
Diagnostic Microbiology Lab Division - HIV	Plate Reader (dual-wavelength)	\$7,600.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - HIV	plate reader (strip)	\$5,200.00	Replacement of unrepairable equipment needed for testing
Diagnostic Microbiology Lab Division - PFGE	Bio-Rad PFGE Module	\$ 25,000.00	Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.
Diagnostic Microbiology Lab Division- PFGE	plate shaker	\$ 1,500.00	
Diagnostic Microbiology Lab Division - STD Lab	Biosafety Cabinet	\$10,000.00	Replacement for aging equipment (>20 years) needed for testing
Drug analysis Lab- Amherst	Balance, analytical	\$ 2,300.00	Replacement of unrepairable equipment needed for testing
Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Amherst	Gas chromatograph/ mass spectrometer	\$ 95,000.00	
Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
Drug analysis Lab- Amherst	15- Storage cabinets/units	\$ 1,335.00	New item for storing equipment and files.
Drug analysis Lab- Jamaica Plain	Balance, top loading, high capacity	\$ 1,400.00	Replacement of unrepairable equipment needed for testing
Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
Drug analysis Lab- Jamaica Plain	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	auto blotter	\$ 10,000.00	New item to perform new Lyme testing.
Infectious Disease Virology Lab Division - Viral Isolation/Serology	filtering pump system	\$ 800.00	Replacement for aging equipment (>15 years) needed for specimen tracking
Infectious Disease Virology Lab Division - Viral Isolation/Serology	gel casting equipment	\$ 3,000.00	Replacement for aging equipment (>20 years) needed for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	Freezer Chart Recorders	\$ 12,000.00	New item to record temperature data for Liquid Nitrogen System
<b>Equipment List Sub Total</b>		<b>\$340,368.00</b>	

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**Justification**

For storage of specimens received for testing

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

New item for dedicated hepatitis testing to replace older testing methodology.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

New item to provide adequate testing capacity

Replacement for aging equipment (>20 years) needed for testing

Replacement of unrepairable equipment needed for evidence/ specimen

Replacement of unrepairable equipment needed for storage of evidence/ specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

New item for storing equipment and files.

Replacement of unrepairable equipment needed for evidence/ specimen

Replacement of aging equipment needed for preparing testing reagents

Replacement of aging equipment needed for testing

New item to perform new Lyme testing.

Replacement for aging equipment (>20 years) needed for testing

Replacement of aging equipment used to prepare lab reagents

Provide remote monitoring of critical specimen freezers